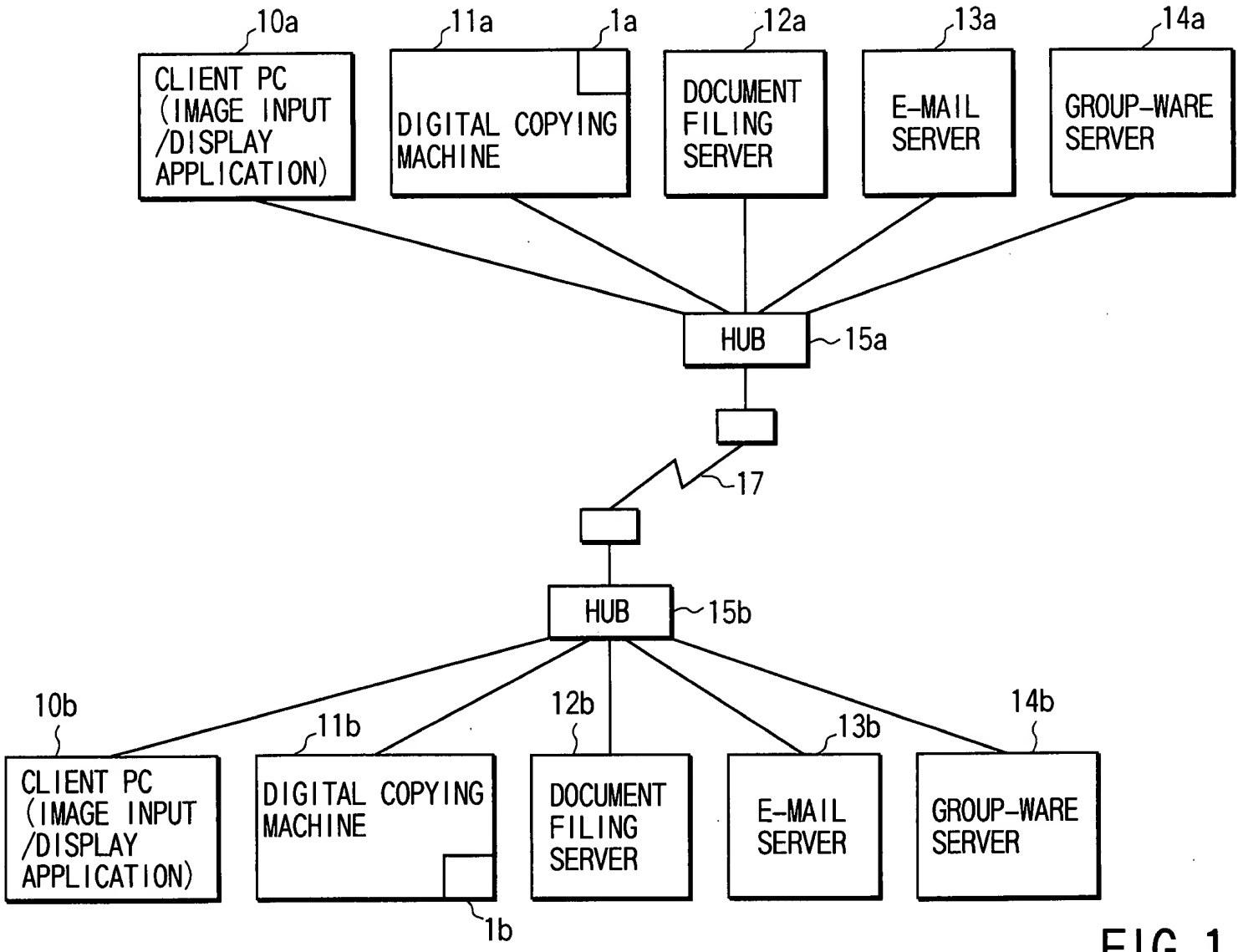
10a
11a
1a
12a
13a
14a
CLIENT PC (IMAGE INPUT /DISPLAY APPLICATION)
DIGITAL COPYING MACHINE
DOCUMENT FILING SERVER
E-MAIL SERVER
GROUP-WARE SERVER
HUB
15a
17
HUB
15b
10b
11b
12b
13b
14b
CLIENT PC (IMAGE INPUT /DISPLAY APPLICATION)
DIGITAL COPYING MACHINE
DOCUMENT FILING SERVER
E-MAIL SERVER
GROUP-WARE SERVER
1b

FIG. 1

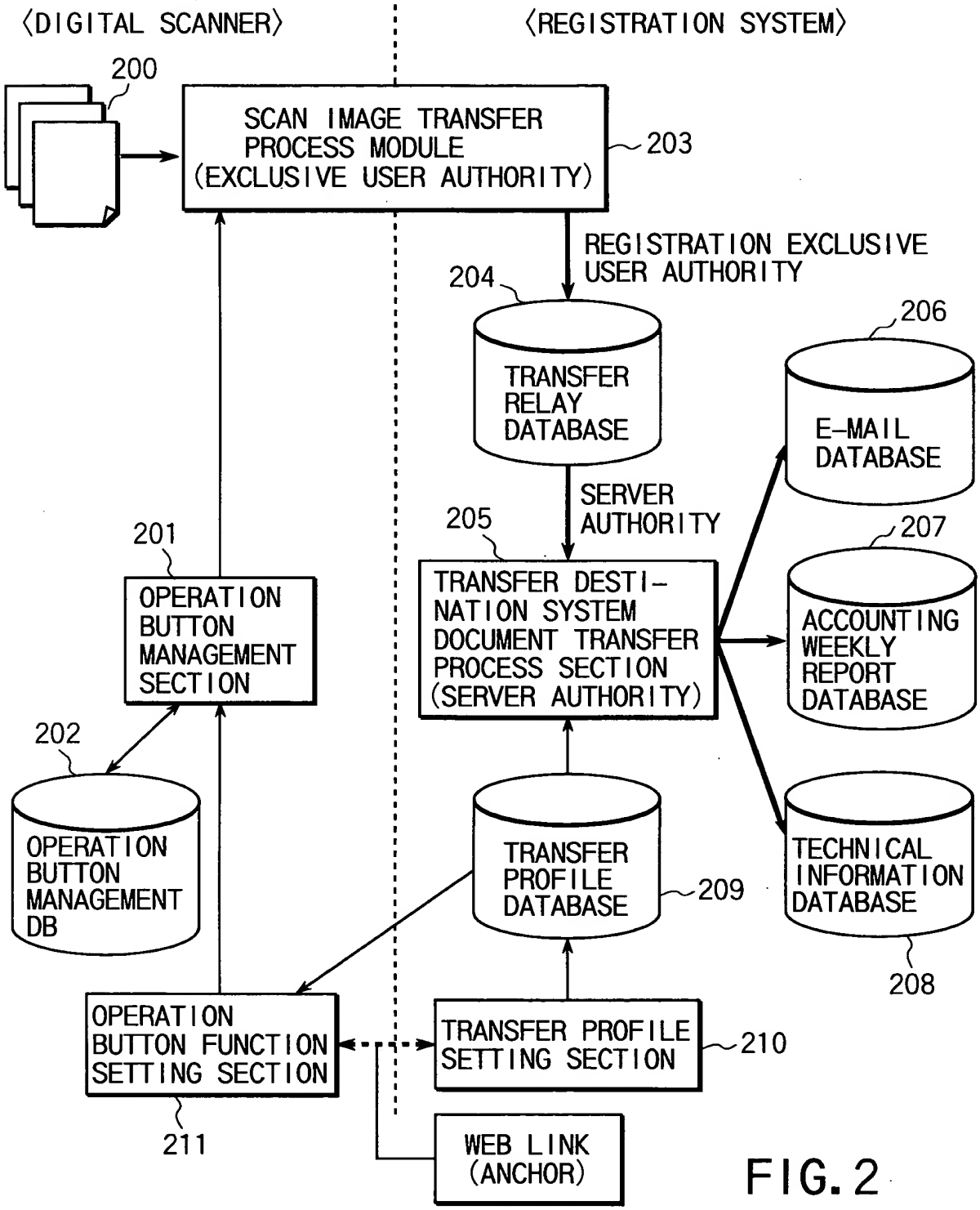
〈DIGITAL SCANNER〉
〈REGISTRATION SYSTEM〉
200
SCAN IMAGE TRANSFER PROCESS MODULE (EXCLUSIVE USER AUTHORITY)
203
REGISTRATION EXCLUSIVE USER AUTHORITY
204
TRANSFER RELAY DATABASE
206
E-MAIL DATABASE
SERVER AUTHORITY
205
TRANSFER DESTI-NATION SYSTEM DOCUMENT TRANSFER PROCESS SECTION (SERVER AUTHORITY)
207
ACCOUNTING WEEKLY REPORT DATABASE
201
OPERATION BUTTON MANAGEMENT SECTION
202
OPERATION BUTTON MANAGEMENT DB
TRANSFER PROFILE DATABASE
209
TECHNICAL INFORMATION DATABASE
208
OPERATION BUTTON FUNCTION SETTING SECTION
211
TRANSFER PROFILE SETTING SECTION
210
WEB LINK (ANCHOR)

FIG. 2

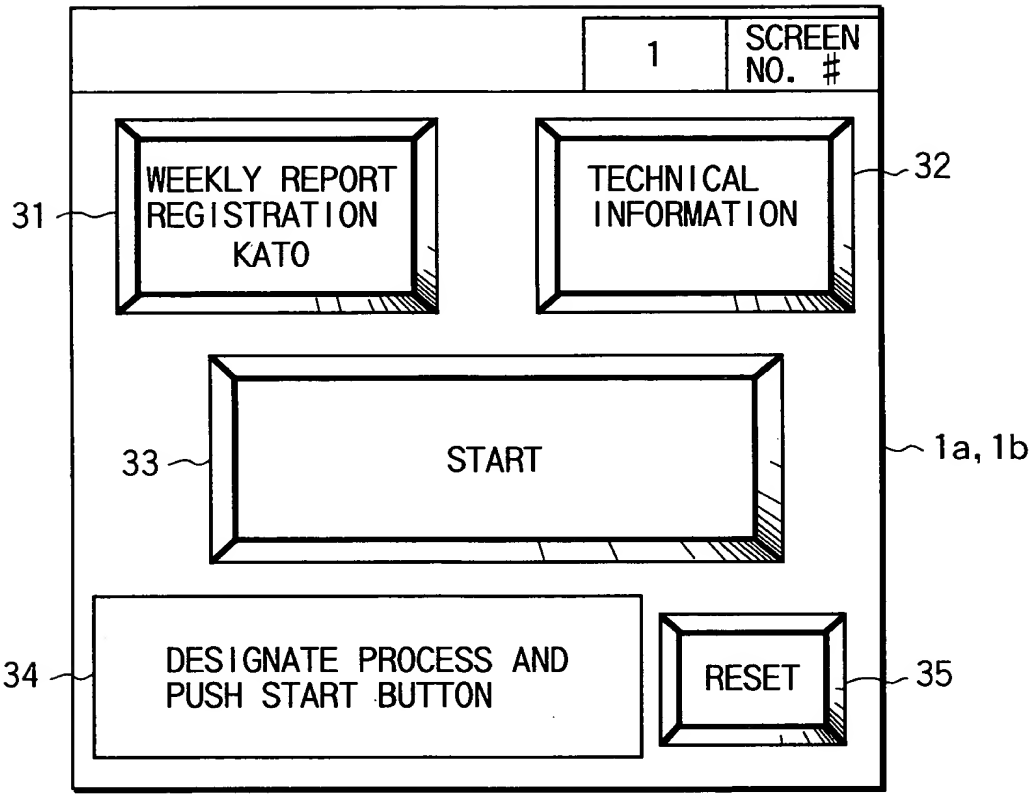

FIG. 3

RELAY DOCUMENT #	PROFILE ID	SCAN DATE/TIME	USED SCREEN # /BUTTON #
1	1001	1999-05-15 @ 10:15	1/1
2	3002	1999-05-15 @ 10:16	100/1
3	3001	1999-05-15 @ 10:25	500/1

FIG. 5

SCREEN #	BUTTON #	TRANSFER DESTINATION SYSTEM	TITLE	SCAN ATTRIBUTE	USER	PROFILE ID	PASSWORD
1	1	FILING A	WEEKLY REPORT KATO	200DPI BLACK-AND-WHITE	ALICE	1001	1234
1	2	FILING A	TECHNICAL INFORMATION	200DPI COLOR	BOB	1002	5555
2	1	FILING B	WEEKLY REPORT	600DPI BLACK-AND-WHITE	CATHY	2001	1111
2	2	FILING B	CATALOG INFORMATION	600DPI COLOR	DAVID	2002	(NONE)

FIG. 4

RELAY DOCUMENT #	PROFILE ID	SCAN DATE/TIME	USED SCREEN # /BUTTON #	USER NAME	IMAGE ID
1	1001	1999-05-15 @ 10:15	1/1	ALICE	1
2	1002	1999-05-15 @ 10:16	1/2	BOB	2
3	2001	1999-05-15 @ 10:25	2/2	DAVID	3

FIG. 6

DOCUMENT #	DATE OF PREPARATION	REGISTRANT	TITLE	TEXT
1	1999-5-15 @ 10:15	ALICE	(CONFIDENTIAL) WEEKLY REPORT REGISTRATION KATO	1999-05-15 (ATTACHED IMAGE)

FIG. 7

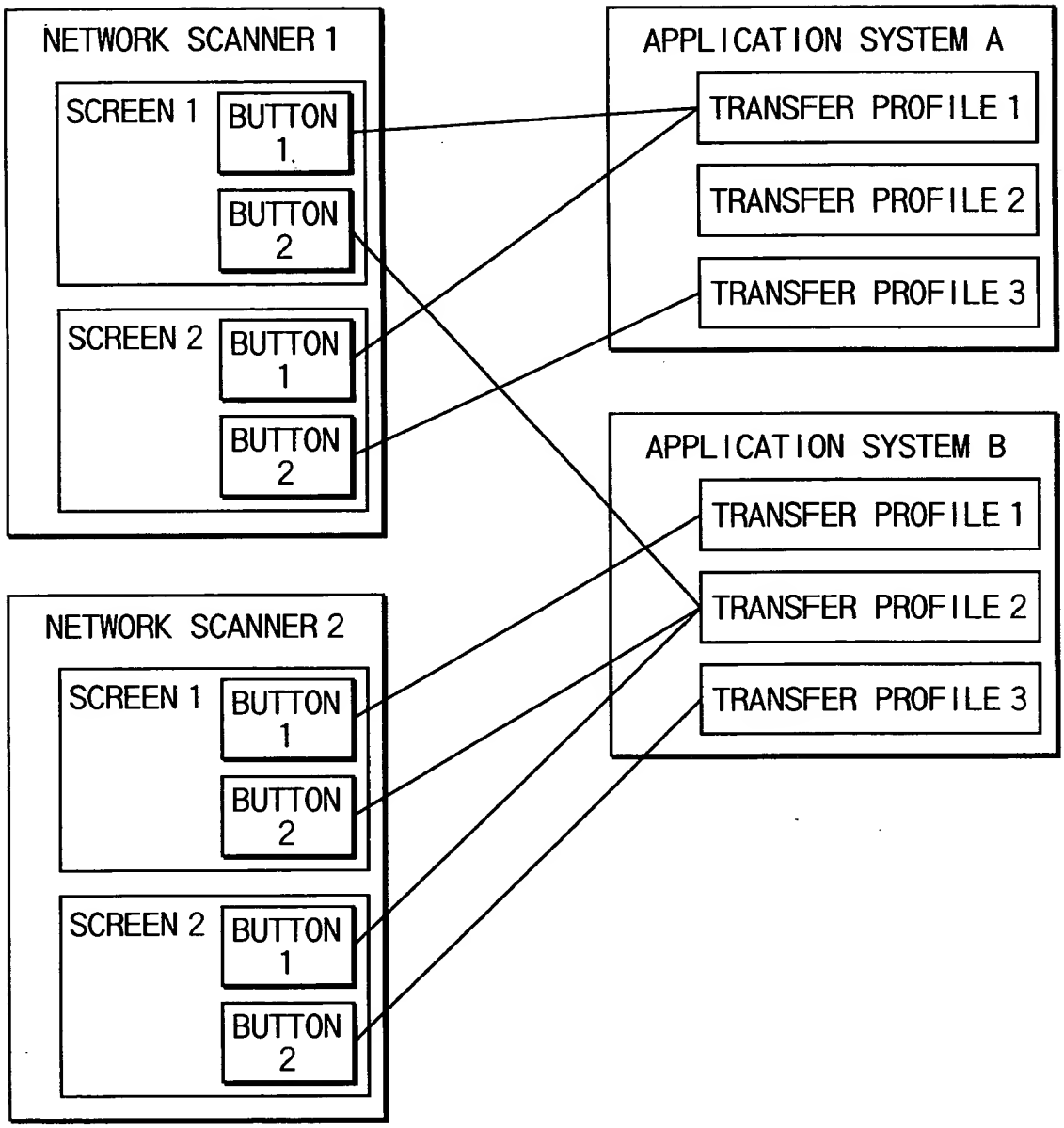
NETWORK SCANNER 1
SCREEN 1
BUTTON 1
BUTTON 2
SCREEN 2
BUTTON 1
BUTTON 2
NETWORK SCANNER 2
SCREEN 1
BUTTON 1
BUTTON 2
SCREEN 2
BUTTON 1
BUTTON 2
APPLICATION SYSTEM A
TRANSFER PROFILE 1
TRANSFER PROFILE 2
TRANSFER PROFILE 3
APPLICATION SYSTEM B
TRANSFER PROFILE 1
TRANSFER PROFILE 2
TRANSFER PROFILE 3

FIG. 8

```
PROFILE ID=1001
TRANSFER DESTINATION DB=ACCOUNTING WEEKLY REPORT DATABASE
FIELD MAP:
        DATE OF PREPARATION=%DATE%
        REGISTRANT=%USER%
        TEXT=%DOCUMENT IMAGE%
        TITLE=(CONFIDENTIAL)%BUTTON NAME%%DATE%

DOCUMENT REGISTRATION FILE FORMAT:PASTE
MAIL NOTICE:    YES       foo@bar.co.jp
```

FIG. 9A

```
PROFILE ID=1002
TRANSFER DESTINATION DB=TECHNICAL INFORMATION DATABASE
FIELD MAP:
        DATE OF PREPARATION=%DATE%
        REGISTRANT=%USER%
        TECHNICAL LEVEL=HIGH
        CATEGORY=%BUTTON NAME%
        TEXT=%DOCUMENT IMAGE%
        TITLE=(IMPORTANT TECHNIQUE)%BUTTON NAME%%USER%

DOCUMENT REGISTRATION FILE FORMAT:FILE ATTACHED
MAIL NOTICE:    NO
```

FIG. 9B

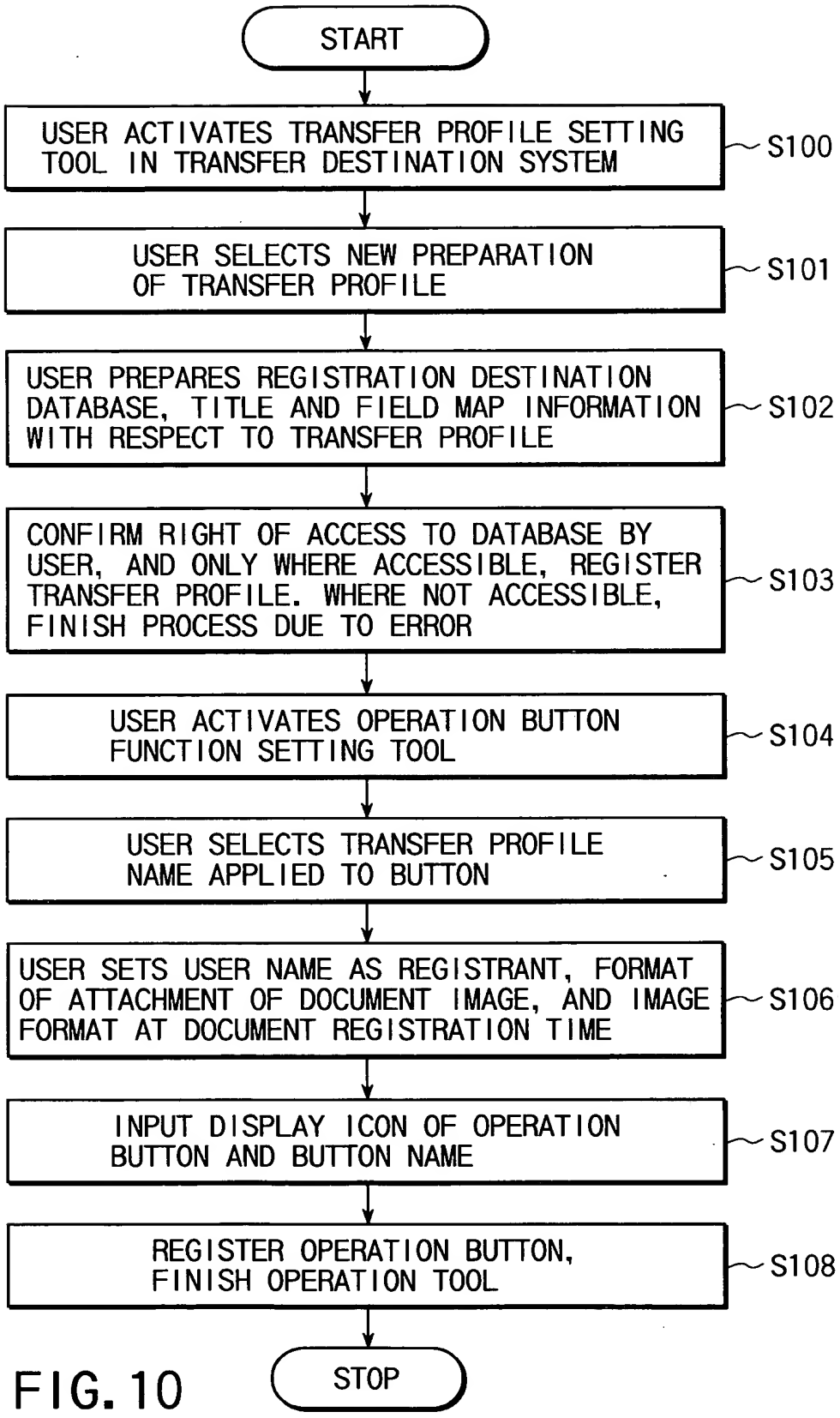
START
USER ACTIVATES TRANSFER PROFILE SETTING TOOL IN TRANSFER DESTINATION SYSTEM
S100
USER SELECTS NEW PREPARATION OF TRANSFER PROFILE
S101
USER PREPARES REGISTRATION DESTINATION DATABASE, TITLE AND FIELD MAP INFORMATION WITH RESPECT TO TRANSFER PROFILE
S102
CONFIRM RIGHT OF ACCESS TO DATABASE BY USER, AND ONLY WHERE ACCESSIBLE, REGISTER TRANSFER PROFILE. WHERE NOT ACCESSIBLE, FINISH PROCESS DUE TO ERROR
S103
USER ACTIVATES OPERATION BUTTON FUNCTION SETTING TOOL
S104
USER SELECTS TRANSFER PROFILE NAME APPLIED TO BUTTON
S105
USER SETS USER NAME AS REGISTRANT, FORMAT OF ATTACHMENT OF DOCUMENT IMAGE, AND IMAGE FORMAT AT DOCUMENT REGISTRATION TIME
S106
INPUT DISPLAY ICON OF OPERATION BUTTON AND BUTTON NAME
S107
REGISTER OPERATION BUTTON, FINISH OPERATION TOOL
S108
STOP

FIG. 10

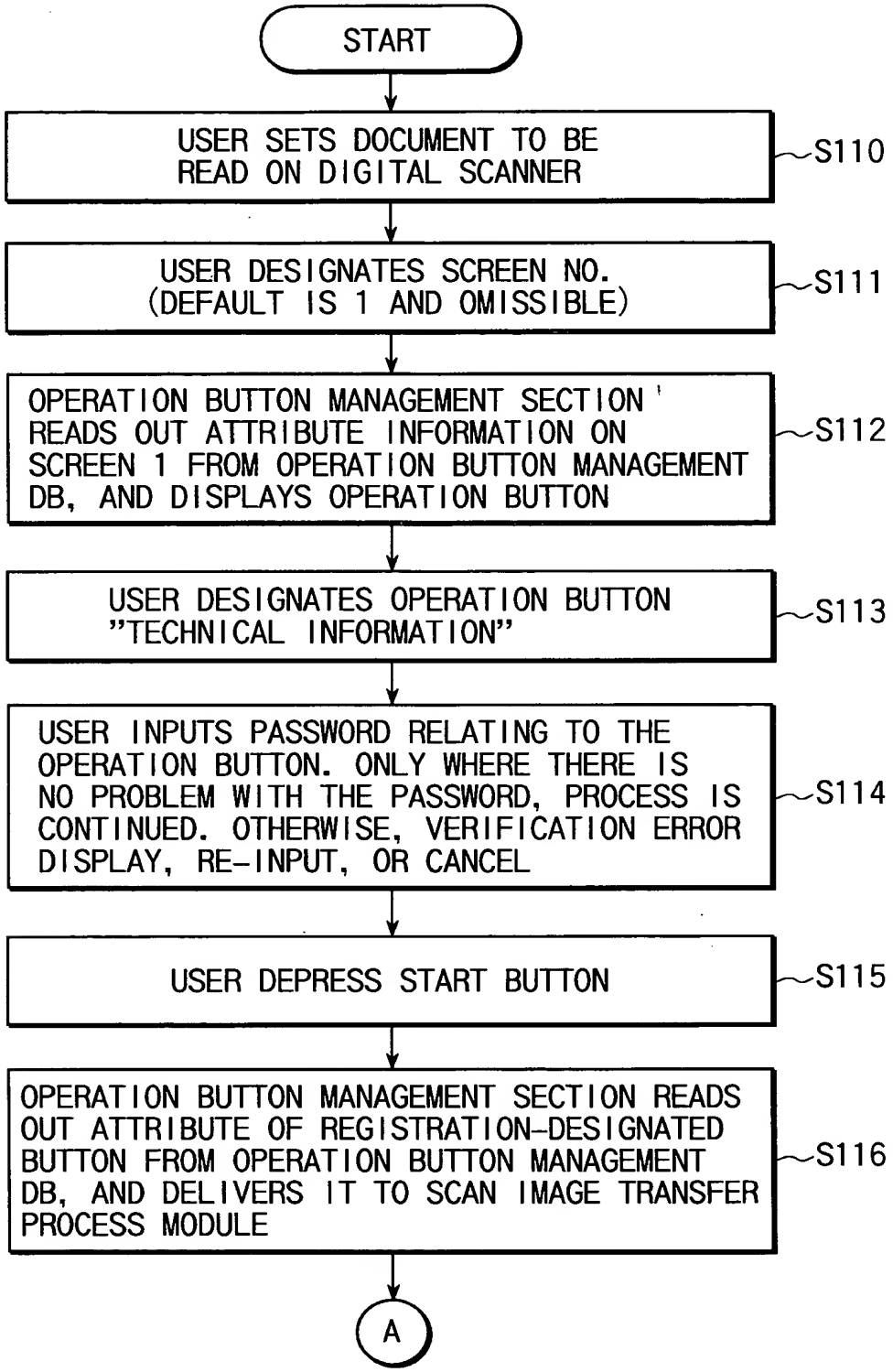
START
USER SETS DOCUMENT TO BE READ ON DIGITAL SCANNER
S110
USER DESIGNATES SCREEN NO. (DEFAULT IS 1 AND OMISSIBLE)
S111
OPERATION BUTTON MANAGEMENT SECTION READS OUT ATTRIBUTE INFORMATION ON SCREEN 1 FROM OPERATION BUTTON MANAGEMENT DB, AND DISPLAYS OPERATION BUTTON
S112
USER DESIGNATES OPERATION BUTTON "TECHNICAL INFORMATION"
S113
USER INPUTS PASSWORD RELATING TO THE OPERATION BUTTON. ONLY WHERE THERE IS NO PROBLEM WITH THE PASSWORD, PROCESS IS CONTINUED. OTHERWISE, VERIFICATION ERROR DISPLAY, RE-INPUT, OR CANCEL
S114
USER DEPRESS START BUTTON
S115
OPERATION BUTTON MANAGEMENT SECTION READS OUT ATTRIBUTE OF REGISTRATION-DESIGNATED BUTTON FROM OPERATION BUTTON MANAGEMENT DB, AND DELIVERS IT TO SCAN IMAGE TRANSFER PROCESS MODULE
S116
A

FIG. 11A

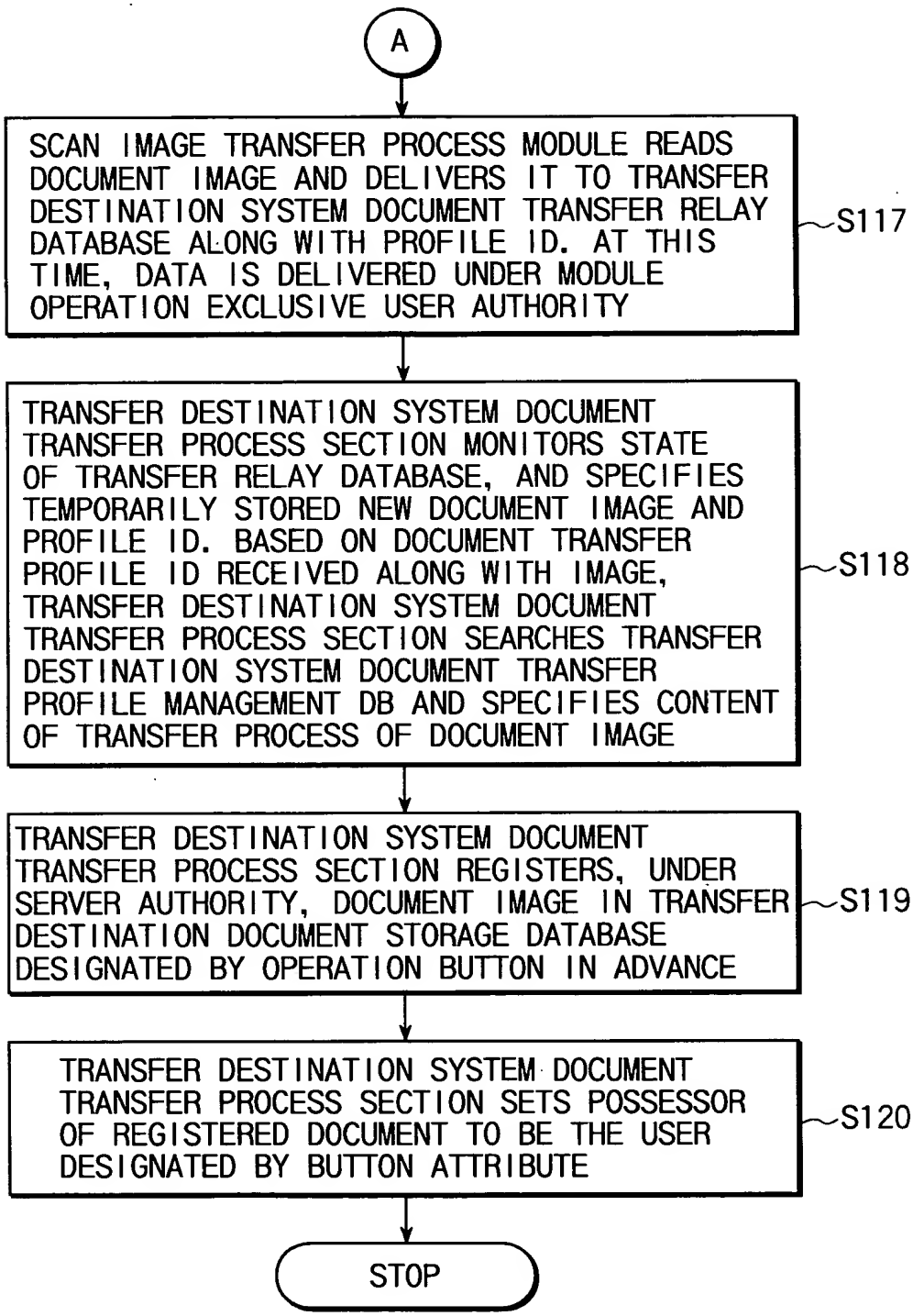
A
SCAN IMAGE TRANSFER PROCESS MODULE READS DOCUMENT IMAGE AND DELIVERS IT TO TRANSFER DESTINATION SYSTEM DOCUMENT TRANSFER RELAY DATABASE ALONG WITH PROFILE ID. AT THIS TIME, DATA IS DELIVERED UNDER MODULE OPERATION EXCLUSIVE USER AUTHORITY
S117
TRANSFER DESTINATION SYSTEM DOCUMENT TRANSFER PROCESS SECTION MONITORS STATE OF TRANSFER RELAY DATABASE, AND SPECIFIES TEMPORARILY STORED NEW DOCUMENT IMAGE AND PROFILE ID. BASED ON DOCUMENT TRANSFER PROFILE ID RECEIVED ALONG WITH IMAGE, TRANSFER DESTINATION SYSTEM DOCUMENT TRANSFER PROCESS SECTION SEARCHES TRANSFER DESTINATION SYSTEM DOCUMENT TRANSFER PROFILE MANAGEMENT DB AND SPECIFIES CONTENT OF TRANSFER PROCESS OF DOCUMENT IMAGE
S118
TRANSFER DESTINATION SYSTEM DOCUMENT TRANSFER PROCESS SECTION REGISTERS, UNDER SERVER AUTHORITY, DOCUMENT IMAGE IN TRANSFER DESTINATION DOCUMENT STORAGE DATABASE DESIGNATED BY OPERATION BUTTON IN ADVANCE
S119
TRANSFER DESTINATION SYSTEM DOCUMENT TRANSFER PROCESS SECTION SETS POSSESSOR OF REGISTERED DOCUMENT TO BE THE USER DESIGNATED BY BUTTON ATTRIBUTE
S120
STOP

FIG. 11B

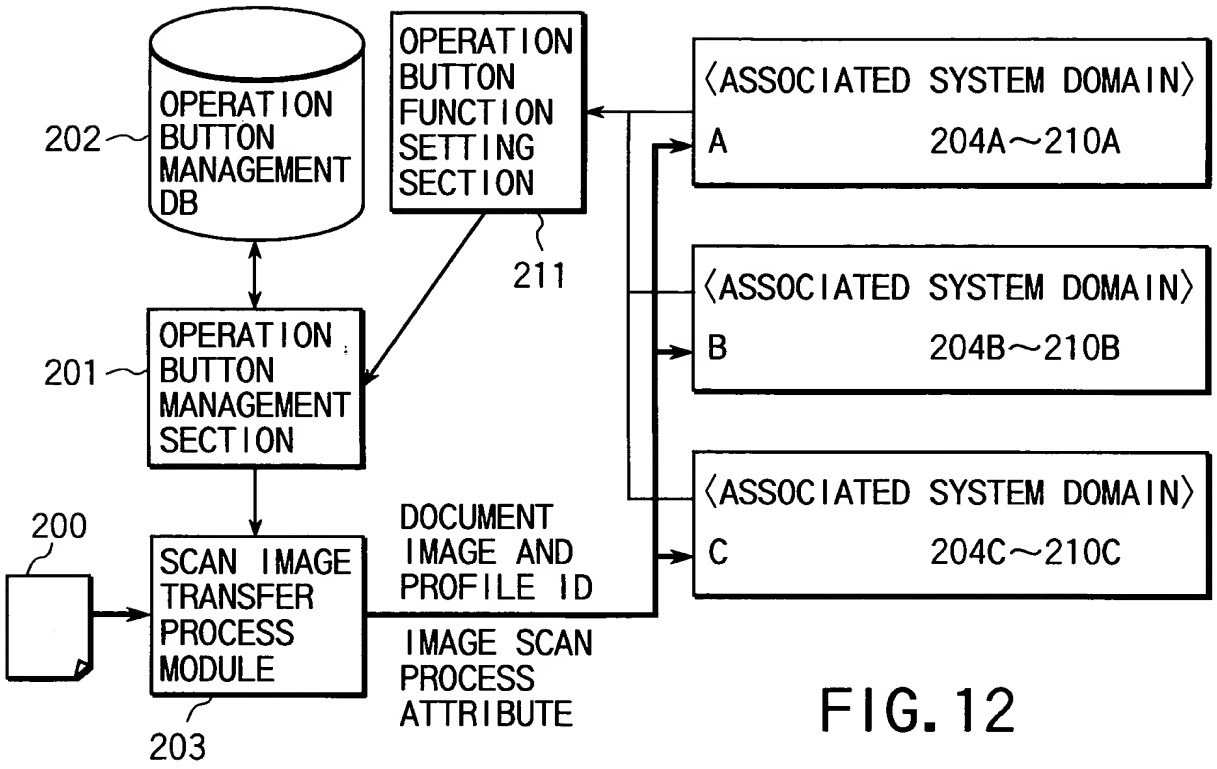
OPERATION BUTTON MANAGEMENT DB
202
OPERATION BUTTON FUNCTION SETTING SECTION
211
OPERATION BUTTON MANAGEMENT SECTION
201
SCAN IMAGE TRANSFER PROCESS MODULE
203
200
DOCUMENT IMAGE AND PROFILE ID
IMAGE SCAN PROCESS ATTRIBUTE
〈ASSOCIATED SYSTEM DOMAIN〉
A 204A～210A
〈ASSOCIATED SYSTEM DOMAIN〉
B 204B～210B
〈ASSOCIATED SYSTEM DOMAIN〉
C 204C～210C

FIG. 12

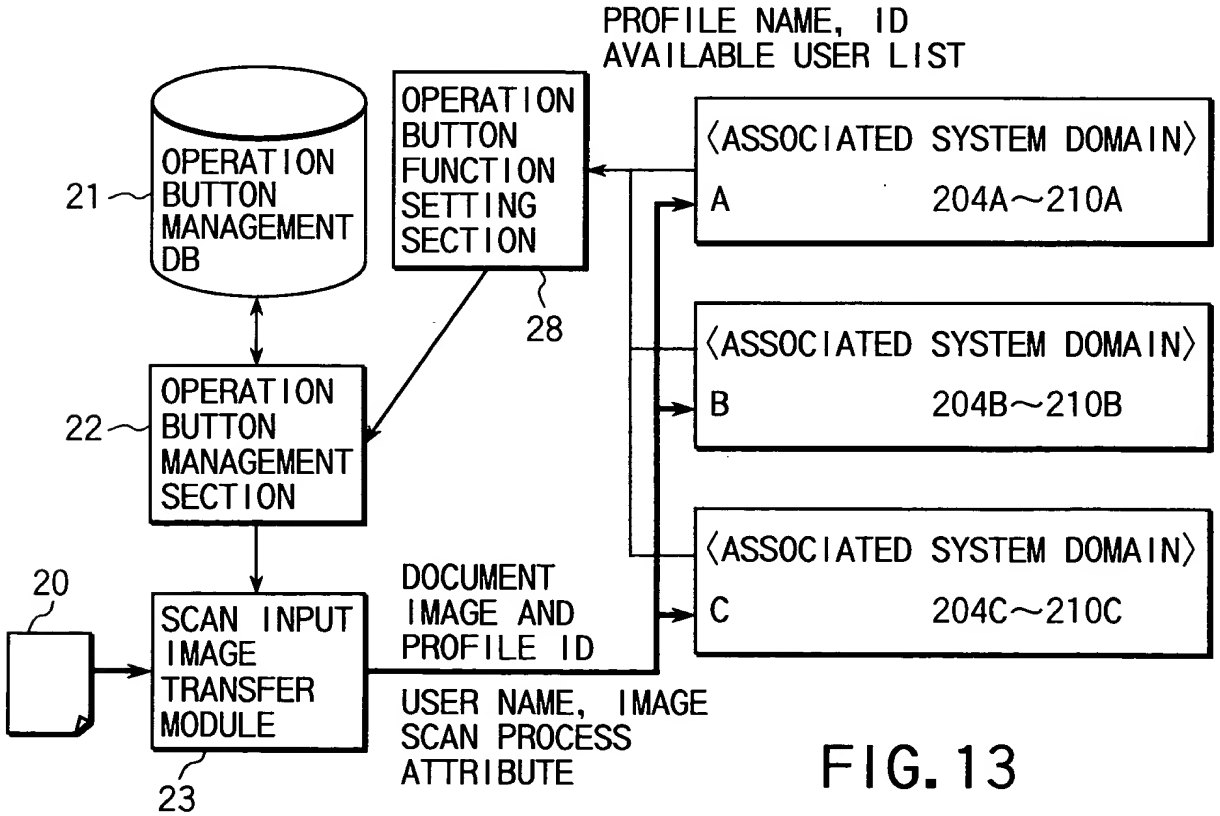
PROFILE NAME, ID
AVAILABLE USER LIST
OPERATION BUTTON MANAGEMENT DB
21
OPERATION BUTTON FUNCTION SETTING SECTION
28
OPERATION BUTTON MANAGEMENT SECTION
22
SCAN INPUT IMAGE TRANSFER MODULE
23
20
DOCUMENT IMAGE AND PROFILE ID
USER NAME, IMAGE SCAN PROCESS ATTRIBUTE
〈ASSOCIATED SYSTEM DOMAIN〉
A 204A～210A
〈ASSOCIATED SYSTEM DOMAIN〉
B 204B～210B
〈ASSOCIATED SYSTEM DOMAIN〉
C 204C～210C

FIG. 13

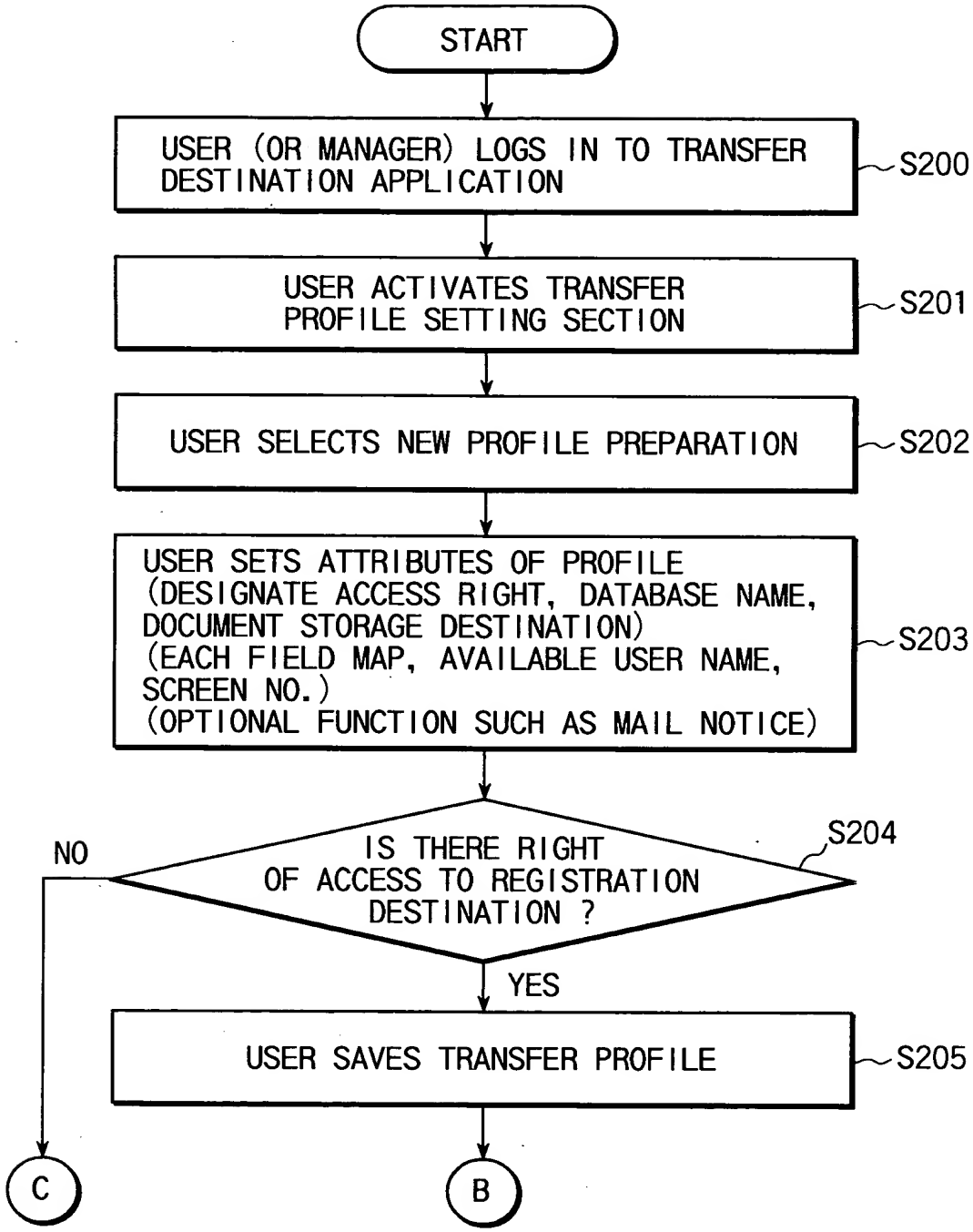
START
USER (OR MANAGER) LOGS IN TO TRANSFER DESTINATION APPLICATION
S200
USER ACTIVATES TRANSFER PROFILE SETTING SECTION
S201
USER SELECTS NEW PROFILE PREPARATION
S202
USER SETS ATTRIBUTES OF PROFILE (DESIGNATE ACCESS RIGHT, DATABASE NAME, DOCUMENT STORAGE DESTINATION) (EACH FIELD MAP, AVAILABLE USER NAME, SCREEN NO.) (OPTIONAL FUNCTION SUCH AS MAIL NOTICE)
S203
IS THERE RIGHT OF ACCESS TO REGISTRATION DESTINATION ?
S204
NO
YES
USER SAVES TRANSFER PROFILE
S205
C
B

FIG. 14A

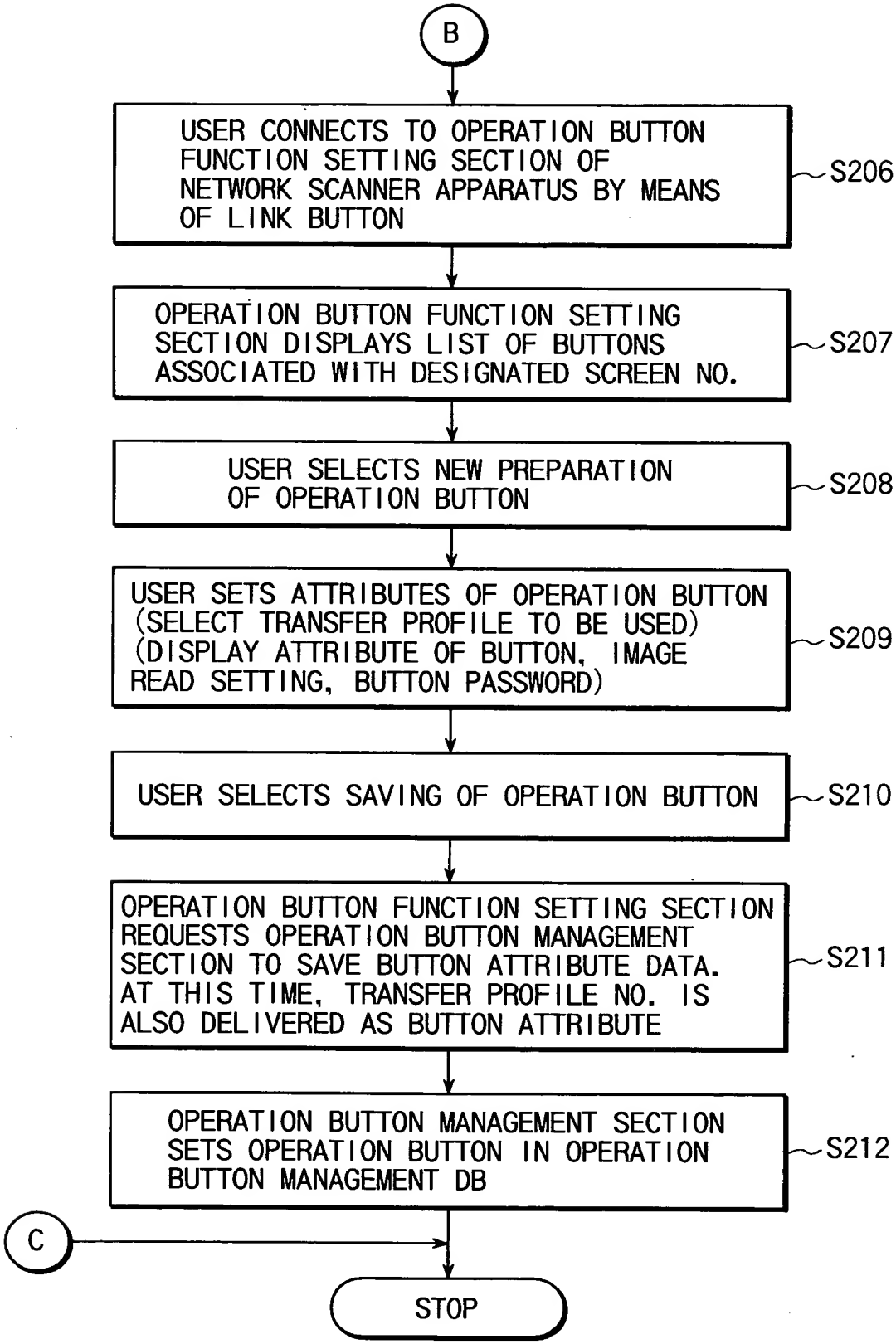
B
USER CONNECTS TO OPERATION BUTTON FUNCTION SETTING SECTION OF NETWORK SCANNER APPARATUS BY MEANS OF LINK BUTTON
S206
OPERATION BUTTON FUNCTION SETTING SECTION DISPLAYS LIST OF BUTTONS ASSOCIATED WITH DESIGNATED SCREEN NO.
S207
USER SELECTS NEW PREPARATION OF OPERATION BUTTON
S208
USER SETS ATTRIBUTES OF OPERATION BUTTON (SELECT TRANSFER PROFILE TO BE USED) (DISPLAY ATTRIBUTE OF BUTTON, IMAGE READ SETTING, BUTTON PASSWORD)
S209
USER SELECTS SAVING OF OPERATION BUTTON
S210
OPERATION BUTTON FUNCTION SETTING SECTION REQUESTS OPERATION BUTTON MANAGEMENT SECTION TO SAVE BUTTON ATTRIBUTE DATA. AT THIS TIME, TRANSFER PROFILE NO. IS ALSO DELIVERED AS BUTTON ATTRIBUTE
S211
OPERATION BUTTON MANAGEMENT SECTION SETS OPERATION BUTTON IN OPERATION BUTTON MANAGEMENT DB
S212
C
STOP

FIG. 14B